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U.S. Patent Application Serial No. 10/510,619 Reply to Office Action of December 27, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Original) Substantially pure desloratadine having an HPLC purity greater than 99.5%, and having an absorbance less than 0.15 Au at 420 nm for a 5%w/v solution in methanol, which does not show a peak for an impurity at a relative retention time in the range from about 0.85 to about 0.99 (relative to desloratedine appearing at a retention time of 25±5 minutes) which is greater than the diseard limit set at less than 0.025% of total area, when tested according to an HPLC method performed using a Hypersil BDS C₈ column (15 cm x 4.6 mm, 5 µm particle size) with the following parameters:

Mobile phase: Buffer solution having a pH of about 3, methanol and acetonitrile in a volume ratio of 8:1:1.

Injection volume : 20µl

Flow rate

: 1.5 ml/minute

Run time

: 75 minutes

Discard limit

: Set at less than 0.025% of total area

- 2. . (Original) Substantially pure desloratadine as claimed in claim 1, wherein (a) total impurities are not more than 0.5%; and (b) no individual impurity is greater than 0.1%.
- 3. (Original) Substantially pure desloratedine as claimed in claim 2, wherein the total impurities are less than 0.3%.
- (Currently Amended) [[A s][Substantially pure deslocateding of claim 1, 2 or 3 prepared by a process comprising acidic hydrolysis of a compound of formula 3, where R is selected from COR1, COOR1, wherein R1 is selected from branched or linear alkyl containing I

to 6 carbon atoms, eyel	oalkyl, alkenyl, alkynyl, aryl, aralkyl and their substituted analogs; b y the
acidic hydrolysis comp	rising
heating	with a strong organic acid or a mineral acid for about 1 hour to about 24
hours,	•
adjustm	ent of adjusting pH of the hydrolysed reaction mixture to a pH-between
the range of about 3 to	about-5. optional-treatment
optional	l <u>v treating</u> with an adsorbent, adjustment of
adjusting	the pH of the reaction mixture to a pH of greater than about 9, and
isolation	-of-isolating deslocatedine [1.1]

Formula 3.

- 5. (Currently Amended) [[A]] <u>The</u> substantially pure destorated ine of claim 4 prepared by a process comprising acidic hydrolysis of a compound of formula 3, by heating to about 20° to 150°C in the presence of a strong acid with an acid at a temperature between the range of ambient-to about 150°C.
- 6. (Currently Amended) [[A]] The substantially pure destorated ine of claim 4 prepared by a process further comprising recrystallization of recrystallizing destorated ine from a solvent system comprising a mixture of an alcohol and a hydrocarbon solvent.
- 7. (Currently Amended) [[A]] <u>The substantially pure destorated ine of claim 6</u> wherein the alcohol is methanol and the hydrocarbon solvent is cyclohexane.

8. (Currently Amended) A process for preparation of substantially pure desloratedine comprising acidic hydrolysis of a compound of formula 3, where R is selected from COR₁, COOR₁, wherein R₁ is selected from branched or linear alkyl containing 1 to 6 carbon atoms, cycloalkyl, alkenyl, alkynyl, aryl, aralkyl and their substituted analogs; and their substituted analogs; by comprising

heating the compound of formula 3 in the presence of with a strong organic acid or a mineral acid for about 1 hour to about 24 hours, adjustment of

adjusting the pH of the hydrolysed reaction mixture to a pH-between the range of about 3 to about 5.

optional-treatment-optionally treating the pH adjusted reaction mixture with an adsorbent, adjustment of

adjusting the pH of the reaction mixture to a-pH-of-greater than about 9, and isolation of isolating desloratedine[[.]]

Formula 3.

- (Currently Amended) [[A]] The process as claimed in claim 8 wherein R is COOR₁ and R₁ is ethyl and the organic-acid is methanesulfonic acid.
- 10. (Currently Amended) [[A]] <u>The process</u> as claimed in claim 8 wherein R is COOR₁ and R₁ is ethyl and the mineral-acid is sulphuric acid.

- 11. (Currently Amended) [[A]] The process as claimed in claim 8, comprising acidic hydrolysis of a compound of formula 3, by heating to about 20° to 150°C in the presence of a strong acid with an acid at a temperature between the range of ambient to about 150°C.
- 12. (Currently Amended) [[A]] The process as claimed in claim 11, comprising acidic hydrolysis of a compound of formula 3, by heating with an acid at a temperature between the range of about to about 60°C to about 110°C in the presence of a strong acid.
- 13. (Currently amended) [[A]] The process as claimed in claim 9, wherein the acidie hydrolysis is carried out by comprising heating with metalmesulfonic methanesulfonic acid for 5 to 15 hours at a temperature between the range of about 90°C to about 120°C.
- 14. (Currently Amended) [[A]] The process as claimed in claim 10, wherein the acidic hydrolysis is carried out by comprising heating with sulphuric acid for 1 to 5 hours at a temperature between the range of about 90°C to about 120°C.
- 15. (Currently Amended) [[A]] The process as claimed in claim 8, wherein adsorbent is selected from charcoal, neutral or alkaline alumina, silica or and fuller's earth.
- 16. (Currently Amended) [[A]] The process as claimed in claim 8, comprising adjustment of adjusting the pH of the reaction mixture to a-pH-between the range of about 4 to about-5, treatment treating with charcoal, adjustment of adjusting the pH of the reaction mixture to a pH-of-about greater than about 9 and isolation of isolating destorateding.
- 17. (Currently Amended) [[A]] <u>The process as claimed in claim 8, further comprising recrystallization of recrystallizing</u> desloratedine from a solvent system comprising of two or more protic or aprotic solvents selected from water, alcohols, linear <u>hydrocarbons</u>, branched <u>hydrocarbons</u>, or cyclic hydrocarbons, aromatic hydrocarbons, ethers, ketones, nitriles, esters, and their halo or substituted analogs and the like.

- 18. (Currently Amended) [[A]] The process as claimed in claim 8, further comprising recrystallization of recrystallizing desloratedine from a solvent system comprising a mixture of an alcohol and a hydrocarbon solvent.
- 19. (Currently Amended) [[A]] <u>The process as claimed in claim 18 wherein alcohol</u> is methanol and hydrocarbon solvent is cyclohexane.
- 20. (Currently Amended) [[A]] <u>The process</u> as claimed in claim 19, wherein the ratio of methanol:cyclohexane is 1:14 v/v.
- 21. (Currently Amended) [[A]] The process as claimed in claim 8 for preparation of substantially pure desloratedine as described in claim 1, 2 or 3.
- 22. (New) Deslorated inc having an HPLC purity greater than 99.5% which does not show a peak corresponding to an impurity of formula 4 when tested according to an HPLC method performed using a Hypersil BDS C_8 column (15 cm x 4.6 mm, 5 μ m particle size) with the following parameters:

Mobile phase: Buffer solution having a pH of about 3, methanol and acctonitrile in a volume ratio of 8:1:1.

Injection volume : 20µl

Flow rate : 1.5 ml/minute

Run time : 75 minutes

Discard limit : Set at less than 0.025% of total area[[.]]

Formula 4.